

1000cc PCT/JP 29 SEP 2004

(12)特許協力条約に基づいて公開された国際出願

(19)世界知的所有権機関
国際事務局(43)国際公開日
2003年10月23日 (23.10.2003)

PCT

(10)国際公開番号
WO 03/086796 A1

(51)国際特許分類: B60J 5/06

(21)国際出願番号: PCT/JP03/04111

(22)国際出願日: 2003年3月31日 (31.03.2003)

(25)国際出願の言語: 日本語

(26)国際公開の言語: 日本語

(30)優先権データ:
特願2002-097084 2002年3月29日 (29.03.2002) JP

(71)出願人(米国を除く全ての指定国について): 三井金属鉱業株式会社 (MITSUI KINZOKU KOGYO KABUSHIKI KAISHA) [JP/JP]: 〒141-8584 東京都品川区大崎1丁目11番1号 Tokyo (JP)

(72)発明者: および

(75)発明者/出願人(米国についてのみ): 横森和人 (YOKO-MORI, Kazuhito) [JP/JP]: 〒407-8555 山梨県甲斐市大

草町下条西割1200 三井金属鉱業株式会社 甲斐工場内 Yamanashi (JP). 若月省二 (WAKATSUKI, Shoji) [JP/JP]: 〒407-8555 山梨県甲斐市大草町下条西割1200 三井金属鉱業株式会社 甲斐工場内 Yamanashi (JP).

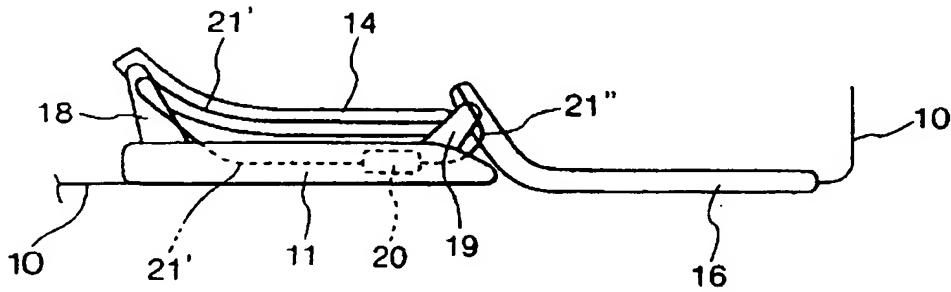
(74)代理人: 新関淳一郎 (NIIZEKI, Junichiro): 〒160-0023 東京都新宿区西新宿6丁目6番3号 新関宏太郎国際特許事務所 Tokyo (JP).

(81)指定国(国内): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SI, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

[続葉有]

(54) Title: POWERED SLIDING DEVICE FOR VEHICLE SIDING DOOR

(54)発明の名称: 車両スライド扉の動力スライド装置



(57) Abstract: A powered sliding device comprises wire cables (21', 21'') provided between a sliding door (11) and a vehicle body (10) and a power unit (20) for sliding the sliding door when the wire cables are moved by the power of a motor. The power unit is provided in the inner space inside the sliding door. The wire cables are composed of the cable (21') for door opening and the cable (21'') for door closing, and the base ends of the cables are connected to the power unit. The front end of the door opening cable is fixed to the vicinity of the rear end of a lower rail (14) after being run through a lower roller bracket (18) of the sliding door. The front end of the door closing cable is fixed to the vicinity of the front end of a center rail (16) after being passed through a center roller bracket (19) of the sliding door.

WO 03/086796 A1

(57) 要約: 動力スライド装置は、スライド扉 (11) と車体 (10) との間に設けられるワイヤーケーブル (21', 21'') と、前記ワイヤーケーブルをモータ動力で移動させることにより前記スライド扉をスライドさせる動力ユニット (20) とを有する。動力ユニットはスライド扉の内部空間に設けられる。前記ワイヤーケーブルは前記動力ユニットに基端側がそれぞれ連結される開扉用ケーブル (21') と閉扉用ケーブル (21'') とから構成される。前記開扉用ケーブルの先端側は前記スライド扉の前記ロワーローラーブラケット (18) を経由させた後ロワーレール (14) の後端部近傍に固定し、前記閉扉用ケーブルの先端側は前記スライド扉のセンター ローラーブラケット (19) を経由させた後センター レール (16) の前端部近傍に固定する。

BEST AVAILABLE COPY

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/04111

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ B60J5/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ B60J5/06

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho 1926-1996 Toroku Jitsuyo Shinan Koho 1994-2003
Kokai Jitsuyo Shinan Koho 1971-2003 Jitsuyo Shinan Toroku Koho 1996-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2001-132332 A (Kabushiki Kaisha Oi Seisakusho), 15 May, 2001 (15.05.01), All pages (Family: none)	1-3
Y	JP 2001-336352 A (Aisin Seiki Co., Ltd.), 07 December, 2001 (07.12.01), All pages & DE 010125897 A	1-3
A	JP 61-109888 A (Kabushiki Kaisha Oi Seisakusho), 28 May, 1986 (28.05.86), All pages & US 4617757 A	1-3

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family
---	--

Date of the actual completion of the international search 30 May, 2003 (30.05.03)	Date of mailing of the international search report 10 June, 2003 (10.06.03)
Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer
Facsimile No.	Telephone No.